



KERALA GAZETTE

കേരള ഗസറ്റ്

PUBLISHED BY AUTHORITY

ആധികാരികമായി പ്രസിദ്ധപ്പെടുത്തുന്നത്

Vol. I വാല്യം 1	THIRUVANANTHAPURAM, TUESDAY തിരുവനന്തപുരം, ചൊവ്വ	20th November 2012 2012 നവംബർ 20 29th Karthika 1934 1934 കാർത്തികം 29	No. നമ്പർ	24
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PART III

Stores Purchase

Fire Force Department

SHORT TENDER NOTICES

(1)

No. F1-11578/2012.

31st October 2012.

Sealed tenders are invited for the purchase of 2 Nos. of Water Bouser to Fire and Rescue Services Department. Details of items can be had along with tender forms. The tenders are to reach the undersigned before 5 p. m. on 6-12-2012.

Estimate Cost—` 80 lakhs.

The tenders should be superscribed as tender No. 16/2012 and addressed to the Commandant General, Home Guards, Civil Defence and Fire and Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-1. Late tenders will not be accepted. The tender will be opened at 11 a. m. on 7-12-2012 in the presence of such tenderers or their authorized representatives who may be present at that time.

Indending tenderers may on application to the Commandant General obtain requisite tender forms on which tenders should be submitted. Application for the tender form should be accompanied by a cash remittance/ money order of ` 12,000 + 4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstances. The tender forms are not transferable. The sale of tender forms will be closed at 3 p. m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Orders, Postage Stamps etc. will be accepted towards the cost of tender forms, nor will the tender forms be sent per value payable post. Duplicate tender forms, if required will be supplied @ ` 6,000 + 4% VAT per copy. The tenderers are to read the general conditions given in the tender forms carefully before the forms are filled up.

Kerala Stamp Paper will be supplied to firms outside state if required by a separate cash remittance of ` 120 Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ് വകുപ്പിലേക്ക് വാട്ടർ ബൗസർ 2 എണ്ണം ഫാബ്രിക്കേറ്റ് ചെയ്ത് വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർഘാസുകൾ 16/2012 നമ്പരായി ക്ഷണിച്ചു കൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽതുക—` 80 ലക്ഷം.

അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 12,000+4% മുഖ്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 6,000+4% മുഖ്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിലപ്പന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012 വൈകുന്നേരം 5 മണിക്ക് മുമ്പായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കുശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012 രാവിലെ 11 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടേയോ സാന്നിധ്യത്തിൽവെച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാന്റിന്റേ ജനറൽ, ഫോം ഗാർഡ്സ്, സിവിൽ ഡിഫൻസ്, ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, കേരള ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പൂജിമുക്ക് പി.ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽനിന്ന് എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണിവരെ ലഭിക്കുന്നതാണ്. ദർഘാസിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റൽ സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

SPECIFICATION

1.0 Chassis

The fabrication of water bouser shall be done on Cowl chassis supplied by Kerala Fire and Rescue Services. (TATA LPT 2518/Ashok Leyland Tarus 2516 or similar) with Power Steering.

2.0 General

The appliance shall carry a water tank having a capacity of 12000 ltrs. of water fitted with a pump at the rear of the appliance driven through PTO, having performance as indicated in clause-5.0. The fabrication shall be done so as to meet all the provisions of this document.

3.0 Material Selection and Treatment

3.1 The choice of materials to be used in fabrication of the appliances shall be made with a view to combine lightness, strength and durability.

3.2 The timber shall not be used for body construction.

3.3 All parts which firm water ways shall be of corrosion resistant material. All metal pipelines shall be dipped galvanized after completing fabrication of pipe line including flanges joints. All metal parts exposed to atmosphere shall either be corrosion resistant material or so treated as to offer resistance to corrosion. All pipe used is fabrication shall at least be of medium duty and duly ISI marked.

4.0 Tank :

4.1 Single water tank mounted on chassis shall be capable of carrying 12000 lrs. of water. It shall be of welded construction and fabricated out of mild steel sheet bearing ISI marking. Thickness of sheet at the bottom shall not be less than 5.0 mm and for the sides and baffle not less than 3.0 mm. The thickness of sheet at bottom shall not be less than 5.0 mm thickness. The tank shall be suitably baffled in both directions to prevent surge. The baffle shall be bolted panel type and bolting shall be done with stainless steel bolts and nuts. It shall be mounted in a manner to keep the center of gravity as low as possible and also to make the water to flow towards the pump.

4.2 Suitable lifting eye will be provided on the shell of the tank to enable the tank to be lifted of the vehicle for repairs etc.

4.3 The tank shall be fitted with three manholes of 450 mm dia. on the top of the tank. The cover of the manhole shall be hinged type. The drainpipe shall not be less than 50 mm dia. Through out and shall be taken down to point well below the chassis without reducing effective ground clearance and shall discharge away from the wheel.

4.4 One over flow pipe not less than 100 mm dia. shall be fitted to the tank and taken down to the point well below the chassis without reducing the effective ground clearance when fully loaded. The pipe shall be so arranged that the water will overflow while refilling the tank and that no water shall overflow when appliance is in motion.

4.5 One filling pipe (Hydrant Connection) of not less than 63 mm and with 63 mm dia male shall be so instantaneous coupling fitted to the tank as to discharge in to the tank from top side. This connection shall be fitted with gate valve to prevent water leaking through the filling pipes.

- 4.6 The tank shall be provided with two cleaning holes at the bottom of not less than 250 mm dia. and shall be fitted with bolted cover.
- 4.7 The plumbing between the tank and the pump shall have clear and unobstructed water way of not less than not 100 mm
- 4.8 Suitable arrangement shall be provided for self filling the water tank directly from the pump using 50 mm pipe and a gate valve.
- 4.9 The water tank with all its fitments shall withstand hydraulic test pressure of 0.3 kgf/cm² without any leakages and deformation.
- 4.10 All plumbing shall be reasonably accessible for maintenance purpose. Screwed bends, sharp flange joints shall be avoided as far as possible.
- 4.11 The tank shall be sand blasted before giving an epoxy treatment. The epoxy treatment shall consist of two coats of primer with two coats of epoxy finish.
- 4.12 Suitable arrangement using channel/turf shall be provided on the top of water tank Call along the length) for channelizing the spilled water to the rear of the tank and thereafter to the ground using suitable pipes.

5.0 Pump

The pump shall be single stage centrifugal pump capable of giving discharge at high and low pressure as specified.

5.1 Pump Performance

5.1.1 The pump will perform the following duties.

5.1.2 Simultaneous operator

1. Maximum pressure in normal pressure mode—
14 kg/cm²
2. Maximum pressure in high pressure mode—
35 kg/cm²

5.1.3 Maximum Pressure

1. Maximum pressure in normal pressure mode—
14 kg/cm²
2. Maximum pressure in high pressure mode—
35 kg/cm²

5.1.4 Deep Lift

1. The pump shall be capable of priming depth from 7.0 mtrs. (after considering the allowances as per IS 950-1980) within 24 seconds.

5.1.5 Priming

1. The pump shall be provided with a reciprocating priming device capable of priming requiring engine rpm not more than 2400 and from 3.0m depth within 12 seconds.

5.1.6 Dry Vacuum

The pump should dry attain dry vacuum 640mm hg. 5.1.7. The reciprocating pistons should be made up of stainless steel (In investment casting) and reciprocating in special self-lubricated liner bearing. The cylinder and priming valve.

Housing should be made up of gunmetal. The eccentric cam should be fitted on pumps main shaft to operated the primer pistons should be operated. The primer should be engaged and disengage automatically when a pump pressure is in the range of 1.5 to 2.0 kg/cm².

5.2 Material of Construction

1. The overall pump construction should be of high strength seawater resistant hard anodized light Aluminium alloy. The aluminium castings should be heat treated to impart high strength and hardness to the components. The normal (low) pressure impeller, pump volute, delivery manifold, delivery valves and high pressure circuitry should be made of light Aluminium alloy.
2. The pump wearing rings should be made of stainless steel confirming to Grade-II of IS 318/1981 and the regenerative type high-pressure impeller should be of Aluminium Bronze.
3. The pump shaft shall be made of stainless steel confirming to IS 6603/1972. The bearing housing should be made of C.I. All studs/bolts coming in contact with water should be of stainless steel.

5.3 Pump Construction

1. The low pressure and high-pressure (HP) impeller should be mounted on a single shaft.
2. The normal low-pressure (LP) impeller should be dynamically balanced. The pump should have self-adjusting Mechanical Carbon Seal.
3. The pump should have an inbuilt filter made of stainless of removable type Steel "V" wire mesh and be of removable type.
4. Operation of HP to LP or LP to HP shall be possible by actuation of a single level and both the stages can operate simultaneously or individually.

5. The pump should have inbuilt pressure release Valve (PRV) which operates automatically, not to allow the high-pressure to increase beyond 45 bar.
6. The Thermal relief Valve (TRV) should be fitted with the pump, which helps to control the temperature within 42°C of pump water when both deliveries (HP & LP) are shutoff for long time.
7. The pump should be modular in design and should have no gaskets/packings. The arrangement should be such that while carrying out the pump maintenance work none of the discharge piping is necessary to be removed and the pump impellers and the carbon seal can be removed without removing the pump volute/body.
8. The pump should have deep groove heavy-duty dual angular contact bearings immersed in oil bath.
9. The pump should be having one suction inlet of 100 mm having round threads conforming to IS 902-1974 and two Nos. of 63 mm delivery outlets having screw down type valves fitted with instantaneous couplings as per IS 903/1993. The delivery valve screw should have no gland. The high pressure outlet should not be less than 19.0 mm and minimum two outlets for high-pressure should be provided.
10. The horizontal reciprocating priming system fully automatic in action and require no attention whatsoever from the pump operator other than throttling the engine.

5.4 Pump Tests

The pump will also be tested for the following tests:

- a. Static hydraulic test of assembly at 21 kg/cm².
- b. The high-pressure section shall withstand a pressure of hydrostatic test 52 kg/cm² sq.
- c. The pump shall be capable to perform low pressure and high pressure mode simultaneously or individually.
- d. Dry vacuum test will attain 640 mm of Hg with in 20 secs.
- e. The pump shall be capable running for a period of three hours non-stop delivering the rated low-pressure output with a suction lift of 3.0 mtrs. And for one hour operating in high pressure mode.

6.0 Hose Reel

Two high pressure hose reel (one on either side) fitted with trigger operated fog gun (adjustable from high velocity jet stream and low velocity fog through actuation of the trigger) shall be installed. The guns should be made of light aluminium Alloy, designed for operational safety and effective for optimum fire extinguishing capacity. The gun must be ergonomically designed and must having large support area for resting the gun on firemen body. The jet should be adjusted to four operational conditions by only one rotating grip. (1) Full jet. (2) 30 degree Narrow Spray. (3) 60 degree Wide spray. (4) Self protection water shield. The high-pressure gun should be hydrostatically tested for 55 kg/cm² and it have specially designed piston valve, which shall flush out external impurities up to 5 mm during the operation. The gun should have water pressure hammer shock absorber for safety and to insure the hose, hose reel and pump. The flow Rate of gun should be in high pressure mode 200 lmm @ 40 kg/cm² and throwing range up to 25 mtrs. at ideal conditions. The length of the hose reel should be 45 mtrs. with manual mechanism to roll the hose. Additional spare hose reel of 45m. long of self supporting stand shall be supplied along with above.

8.0 Monitor

The appliance shall be fitted with water monitor at the top with suitable control valve near the pump as well as near the monitor. It shall be capable of delivering @ 1100 LPM at 7.0 kg/cm² with a jet throw not less 20m. The monitor shall be capable of traversing to 360° in horizontal plan and +45° vertically. It shall be provided with a suitable nozzle made of aluminium alloy.

9.0 Body Work/Stowage/Cabin:

- 9.1 Enclosed accommodation with double compartment for six people with driver and Officer in the front and a crew at the rear shall be provided. The driver seat shall be of adjustable type. The design of the cab shall be such that it affords max possible vision. Two-hinged door shall be provided on both side of the appliance for easy access to driver and crew. All doors shall open outward and hung forward. The locking arrangement shall be with double catch striking plate. Non-slip step and grab rails coated with plastic shall be provided to assist the driver and crew to get in and out. All the seats shall be fitted with 100 mm thick foam cushion. All windows shall have safety glasses and all glasses be filled with winding type regulator. Two number

sun visors shall be provided one on each side. The construction of cab shall be such that the roof shall support the weight of two men without damage.

9.2 The cab lockers should be composite construction with sufficient rigidity reinforcement and to be kept as light as possible. The entire structure shall be made of 32 x 32 x 1.6 mm square tube of M. S. Aluminium sheet (16 gauge) shall be used for exterior paneling work all over. For inner wall of the lockers to gauge mild steel shall be used. Aluminium checker plate (2.5 mm thick) shall be used for locker and cab floor. Inspection maintenance hatch of removable type shall be provided in the cabin for gaining access to gear box/P.T.o.

9.3 There shall be two lockers, one on either side of the chassis at the rear of appliance for stowage, in addition to a through and through locker just behind the crew cab. The lockers shall be composite construction. The doors of the lockers shall have efficient means for holding them closed by flush fitting spring-loaded locks and hinged at side. Inner walls of the locker shall be of 16 gauge M. S. and 2.5mm thick aluminium checker plate for flooring. All lockers shall be weather proof and self-draining type. All lockers shall be provided with internal automatic lighting arrangement with the master switch in the cab. The pump and other fittings shall be covered by hinged door with suitable locking device at the rear.

9.4 The suction hose tunnel shall be provided at suitable location for carrying for numbers of 2.5m long, 100mm dia. Suction hose.

9.0 Revolving Light/Fire Bell

9.1 Two revolving lights of amber colour shall be fixed on the roof of the cab (one on either side) A two-tone siren with necessary amplifier and operating control shall be fitted in front of officer's seat. The revolving light and electronic two-tone siren shall be of "Grand Make" Model GM 103 TF and GES-40 FTF.

9.2 A fire bell of 250 mm dia. Natural tone carillon shall be mounted externally and capable of being operated from the driver's compartment shall be provided.

10.0 Control Panel:

The following controls shall be provided at the rear pump operating panel.

- (a) Pressure gauge 0 to 17 kgf/cm² (in blank).
- (b) Compound gauge calibrated as.
 - (i) Pressure 0 to 7 Kgf/cm² (in black).
 - (ii) Vacuum 0 to 75 cm Hg (in red).

- (c) Engine throttle control.
- (d) Priming control lever.
- (e) Pump hour meter in cabin.
- (f) A Flasher light and audio cum visual warning arrangement (90 db output) at driver's cabin and pump panel at rear for engine temperature exceeding 90°C.

11.0 Valve

All valves used in the water lines shall be G. M. gate valve with relevant I. S. marking.

12.0 Workman ship and Finish

12.1 All part of the appliance shall be of good workman ship and shall have streamline finish. All mechanical and other part shall be such that parts normally required to be replaced can be supplied and fit correctly.

12.2 The appliance will be painted 'fire red' two coats conforming to shade 536 of IS: 5-1978 and paint conforming to IS 2932. Necessary anti corrosion and primer coat shall be applied before painting in order to achieve gloss finish. The under chassis shall be painted black. The inside of locker shall be painted cream.

12.3 Fire service insignia shall be painted on both side of the appliance and golden and black and lettering Kerala Fire and Rescue Services shall be done on either side of appliance in yellow paint.

13.0 Accessories/Equipments :

- (a) Fog lamp fitted in front of appliance—02 Nos.
- (b) Reversing lights fitted at the rear of appliance—01 No.
- (c) Four Nos. of Plastic Dutron Kanaflex make suction hose 2.5 mts. Each Black heavy duty.
- (d) Light alloy water cooled portable fire pump coupled to a suitable gasoline runs engine and capable of delivering 1800 Lts./min. at 0.8 Mpa and 1500 Lts./min. at 1.0 Mpa. The pump shall be fitted with a suction inlet and two delivery outlets conforming to relevant Indian Standards. The priming system shall be capable of lifting water from a 7 m depth within 30 sec. The engine shall be battery start and the dry weight of the unit shall not exceed 100 kgs.
- (e) Fire hook as per IS-927—01 No.
- (f) Delivery hoses of type B. ISI marked 50mm dia. 30 mts. Long with heavy duty G. M. couplings instantaneous 63 mm male & female duly banded using copper wires—10 Nos.

- (g) Lock/boll cutter heavy duty within minimum of 1050mm-42" with capability to cut high tensile bolts, rods & wires upto 12.7mm.

14.0 Instruction Book :

Three set of following literature shall be supplied.

- (a) User's hand book with illustrations both for operating and normal maintenance procedure of appliance.
- (b) Work shop repair manual.
- (c) Illustrated part identification list.

15.0 Acceptance Tests/Testing Facilities

The following test shall be carried out before accepting the vehicle. These shall be carried out at the manufacture works. All material required during the acceptance test will be provided by the manufacturer.

- 15.1 The front axle, rear axle and total weight of the loaded appliance shall be checked and the same should not exceed the manufacturer specifications.
- 15.2 The pump shall be run for a period of 4 hours (non-stop) to check the rated output at varying pressure as per clause 5.0. The output shall be checked using "v" notch method/flow meter. The engine shall show no sign of distress during test.
- 15.3 The pump casing and impeller shall be subject to hydraulic test as specified in clause 5.0 i.e. 21 kgf/cm².
- 15.4 Primer Test: The priming system shall be tested for the requirement as laid down in clause 6.0. They shall be carried out immediately after the pump output test.
- 15.5 The tank shall be tested as per clause 4.8.

16.0 Manufacture guarantee certificate

- 16.1 The manufacturer shall furnish a guarantee for the material. Workmanship and performance of the appliance for a period of two year from the date of receipt of equipment.
- 16.2 The manufacturer shall be responsible for replacing any part which may become unserviceable during the above period due to substandard material/bad workmanship, free of all charges.

17.0 Note

The manufacture may take note of the following points before submitting the tender document.

- 17.1 The vehicle shall be inspected in two stages.
 - (a) After completion of basic frame work, tank ready but not mounted, pump ready but not mounted, structural work.

- (b) Acceptance test as per clause 15.0 once the vehicle is ready in all respect.

- 17.1 The fabricated vehicle shall meet all the regulation with respect to motor vehicle act/RTO regulation enforce and in no case exceeds the manufacturer specification w.r.t. chassis.
- 17.2 The delivery of the chassis shall be given to the successful vendor from workshop and the accepted vehicle shall be delivered at the workshop by the vendor.

18.0 Power take off

The pump shall be coupled to the prime mover of the chassis through a P.T.O. ratio 1:1:3.3, 6000 NM—1.33 R-96 H graded C. 1 extra heavy duty, single mechanical 7 pneumatic (New) shifting. Drive line shaft bearing size 55 mm. P.T.O. output shaft bearing size 50 mm, gear torque upto continuous rating 6000 NM. A control level (for mechanical shifting) and hand level operated valve (for pneumatic shafting) for engaging and disengaging the pump with suitable locking device, will be provided in the driver's cabin. The fabricator shall submit proof of purchasing a brand new PTO unit. The P.T.O. shall be fitted to plate at the input output inching of P.T.O. the plate shall be of minimum 8 mm thickness.

CONDITIONS

- | | | |
|---|---|---|
| 1 | Whether samples are essential | — Palmlets, Photograph etc. should be forwarded along with Tender. |
| 2 | Period with in which goods should be delevered | — With in two months from the receipt of supply order. |
| 3 | Rates should be quoted for the delevery including transporting charge of the chassis to Kerala Fire and Rescue Services Hqrs. | — FOR. Trivandrum. |
| 4 | Payment | — 90% payment against delivery at Thiruvananthapuram in good condition. |
| 5 | Other Special condition | — A guarantee of 2 years from the delivery of item. |

(2)

No. FI-11581/2012.

31st October 2012.

Sealed tenders are invited for the purchase of 50 Nos. of Under water Search Light to Fire and Rescue Services Department. Details of items can be had along with tender forms. The tenders are to reach the undersigned before 5 p. m. on 6-12-2012.

Estimate Cost—` 35 lakh.

The tenders should be superscribed as tender No. 19/2012 and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-1. Late tenders will not be accepted. The tender will be opened at 11 hrs. on 7-12-2012 in the presence of such tenderers or their authorized representatives who may be present at that time.

Indending tenderers may on application to the Commandant General obtain requisite tender forms on which tenders should be submitted. Application for the tender form should be accompanied by the cash remittance/money order of ` 5,250 + 4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstances. The tender forms are not transferable. The sale of tender forms will be closed at 3 p. m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Orders, Postage Stamps etc. will be accepted towards the cost of tender forms, nor will the tender forms be sent per value payable post. Duplicate tender forms, if required will be supplied at ` 2,625 + 4% VAT per copy. The tenders are to ready the general conditions given in the tender forms carefully before the forms are filled up.

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കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ് വകുപ്പി ലേക്ക് അണ്ടർ വാട്ടർ സെർച്ച് ലൈറ്റ് 50 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽനിന്നും മുദ്രവച്ച ദർഘാസുകൾ 19/2012 നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽതുക—` 35 ലക്ഷം.

അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 5,250 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 2,625 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിൽപ്പന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012, 5 മണിക്ക് മുമ്പായി ഈ ഓഫീസിൽ

ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കുശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012, 11 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടേയോ സാന്നിധ്യത്തിൽവെച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാന്റന്റ് ജനറൽ, ഹോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, കേരള ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളമുട് പി.ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽനിന്ന് എല്ലാ പ്രവൃത്തിദിവസങ്ങളിലും വൈകുന്നേരം 5 മണിവരെ ലഭിക്കുന്നതാണ്. ദർഘാസിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

CONDITIONS

1. Wheteher samples are — Pamphlets, Photograph essential etc. should be forwarded along with the tender
2. Period with in which — With 2 week from the goods should be receipt of supply order delivered
3. Rates should be quoted— for, Thiruvananthapuram for the delivery including transporting charge of the items to Kerala Fire & Rescue Service, Head quarters
4. Payment — 90% payment against delivery at Thiruvananthapuram in good condition
5. Other special condition—A guarantee of 12 months from the delivery of item.

SPECIFICATION

Search Light Under Water

The under water light shall have the following features.

It shall be equipped with HID metal halide bulb for more brightness and energy saving.

It is having good penetrability.

Working environment temperature min. by 80 degree to + 45 degree.

Water proof degree, underwater by 40 meters.

Illumination time minimum by 90 minutes.

Brightness 2100 Lumens.

Material of construction, aluminium.

Weight, maximum by 1.7 Kgs.

(3)

No. F1-11582/2012.

1st November 2012.

Sealed tenders are invited for the purchase of 20 Nos. of Modern Trussed type Aluminium Extension Ladder to Fire and Rescue Services Department. Details of items can be had along with tender forms. The tenders are to reach the undersigned before 5 p. m. on 6-12-2012.

Estimate Cost — ` 20 lakh.

The tenders should be superscribed as tender No. 20/2012 and addressed to the Commandant General, Home Guards Civil Defence & Fire and Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-1. Late tenders will not be accepted. The tender will be opened at 11 hrs. on 7-12-2012 in the presence of such tenderers or their authorized representatives who may be present at that time.

Intending tenderers may on application to the Commandant General obtain requisite tender forms on which tenders should be submitted. Application for the tender forms should be accompanied by cash remittance/ money order of ` 3,000 + 4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstance. The tender forms are not transferable. The sale of tender forms will be closed at 3 p. m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Orders, Postage Stamps etc. will be accepted towards the cost of tender forms, nor will the tender forms be sent per Value Payable Post. Duplicate tender forms, if required will be supplied at @ ` 1,500 + 4% VAT per copy. The tenderers are to read the general conditions given in the tender forms carefully before the forms are filled up.

Kerala Stamp Paper will be supplied to firms outside state if required by a separate cash remittance of ` 120 Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ് വകുപ്പിലേക്ക് മോഡേൺ ട്രസ്ഡ് ടൈപ്പ് അലൂമിനിയം എക്സ്റ്റൻഷൻ ലാഡർ 20 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽനിന്നും മുദ്രവച്ച ദർഘാസുകൾ 20/2012-ാം നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദ വിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽതുക—` 20 ലക്ഷം.

അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 3,000 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 1,500 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിൽപന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012, 5 മണിക്ക് മുമ്പായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കുശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012, 11 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽവെച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാന്റന്റ് ജനറൽ, ഹോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, കേരള ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളമൂട് പി.ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽനിന്ന് എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണിവരെ ലഭിക്കുന്നതാണ്. ദർഘാസിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

SPECIFICATIONS

1. SCOPE

The specification covers the design fabrication, testing inspection before dispatch and delivery it includes the details of materials required in fabrication of Trusted Type Fire Ladders, size and mass of the ladders and performance tests to be carried out at the manufactures works.

2. REQUIREMENT

The ladder shall be suitable for use in construction, maintenance operations of fire fighting and rescue works the length of the ladder can be varied as required between the fully extended position to fully retracted position.

3. APPLICABLE STANDARDS

Unless otherwise modified in the specification, the ladder shall comply with the requirements of IS-733 of 1983 along with latest amendments thereof the stainless steel parts must comply with the requirements of the grade AISI-316 along with latest amendments thereof the rope provided shall comply with IS-5175.

4. GENERAL

This standard lays down the requirements regarding materials, construction, workmanship, finish and acceptance tests of aluminium double extension ladder trussed type used for fire fighting and rescue operations, the ladder must be made with a view to combine lightness with strength and durability. All metal parts must be either corrosion resistant or treated to resist corrosion.

When fully extended the ladder must be 10.5 meters 35 feet long overall and so constructed that it is reasonably rigid, strong and free from sway when pitched against the wall with the base of the ladder at 6-6 inches 2 meters from it and two men are ascending the ladder at speed or one man is carrying another while descending the ladder.

5. MATERIALS

The choice of the materials to be used in the construction of the ladder to be made with a view to combine lightness with strength and durability, aluminium alloy strings and rods used in the ladder must be light in weight, rust proof, fire proof, rot proof, minimum strength of the hollow

rounds and tubes must be not less than 20 kgs and the temper alloy of the material to be Hy grade the hollow rounds and tubes must be non defective or else the same will be rejected, the specific alloy and temper combinations must be used and no other combination will be allowed.

All metal parts must be either treated to resist corrosion or must be corrosion resistant such as stainless steel components must be fitted and the grade of the stainless steel be not less 316 quality.

The polyamide multifilament three strand hawser and rope to be manufactured from hawser laid yarn twisted together with Z twist the number of rope yarn and strands must be not more than three number of yarns must be equal. The rope and the strands must be shall be continuous with splice, the finished rope shall be flexible, well laid and free from defects in yarn strands and finish. The breaking load of the rope to be 2210 Kgs. This rope to be fitted for extending and lowering the ladder.

The locking pawls must be made from aluminium alloy chilled casting to make the materials of solid strength for rigid use, special steel springs must be fitted to manage the device function controls, covers made from aluminium alloy metal 'C' shaped materials of 3 mm thickness of H 1 sheets and length of the boxes must not exceed 12 inches. Lock Covers made from any other material (Stainless Steel/Mild Steel) will not be accepted. The length of the long pawl must not exceed 208mm and length of the short pawl must not exceed 85mm under any circumstances.

The heels of the stiles or strings of the lower section must be fitted with feet to avoid slipping the stiles of the ladders must be fitted with 16 units of 5 Nos. of sliding fitments to function smoothly and the melting point of these fitments to be less than 200 degrees at any point.

Bushes used in the friction parts must be made from extruded gun metal rods only, outer part of the bushes must be made from extruded corrosion resistant bar rod to guide the polyamide line, aluminium round head rivets must be used for the construction of the ladder units. No flat head rivets must be used for the constructions of the ladder. Head wheels must be fitted at the top of the ladder to avoid friction of damage while extending or lowering the ladder, the method of fixing the head wheels must be with single rod to hold the same while in rescue operations and smooth movements, single bolt fitting will not be accepted and any other materials used will not be accepted.

6. CONSTRUCTION

The truss construction using air-craft industry technique of riveting combines with the high tensile aluminium extrusions to give strength rigidity and light in weight aspects, the rounds are square sections to prevent turning and the treated surface is ribbed to give excellent non-slip properties, the guides from an integral part of the stiles.

Dual action long and short pawls are fitted to ensure negative actions, the top section is extended by a line with rot proof and non-hardening features for case of handling, wheel assembly fitted to the head to facilitate easy running against uneven wall surfaces, footing spigots must be fitted for slip proof on smooth surfaces. Rungs to be fitted by one direct pin punch clip rivet system to strengthen the structure and not any other method, sides of the ladder to be fully packed from outside to avoid weakening and to improve the strength and stability of the product structure.

7. DESCRIPTION

The ladder must consist of two sections one main and one extending section the width of the narrowest section being more than 16 inches the strings must be built up construction with trussing, the trussing must be on the upper sides of the ladder when it is in operational use.

All the hollow sections must be reinforced with bulbs made of aluminium to be fitted from outside for further strengthen the structure for rigid use of the ladder. The design of the ladder be such that it ensure easy sliding of the extending section without excessive clearance in the guidelines. No lubricants must be used for extension or sliding of the ladder sections accurate safety aluminium bar fitments to be provided in the ladder. The extending section must be guided throughout the full range of extension in such a manner that it cannot separate. No plastic or other fitments to be fitted for preventing over extension of the ladder.

The ladder must be capable of being fully extended by one man by means for effortless lifting and lowering the ladders so as to leave the working face of the ladder unobstructed the total height of both the sections (complete ladder) must not exceed 172mm under any circumstances.

The rope must be of 12mm dia. 36mm circumference to provide a convenient grip and must be reasonably flexible when wet the end of the rope must be attached to the bottom of the main section so as to leave the minimum amount of slack when the ladder is fully housed.

Interlocking must be fitted to avoid accidents while in use, automatic locking device in a set of two must be fitted to hold the ladder in any position of extension at which the rounds on the main ends.

the two sections must co-inside each other so preferably arranged that they engage automatically release being effected by still further extending the sections before lowering the pawls being such that they are set for engagement with one another until they are rested and trip to clear immediately.

The ladder sections must fit as clear as possible to one another to keep to a minimum the extent of step in or step out the distance between two rungs in height must not exceed 1 (254mm) when passing from one section to another rounds must be of square cross section and must be provided with non-slip treads raised above the surface of the rounds to be placed at 10 inches 250 mm apart and not more as if the same is fitted at more distance it will cause accidents as per the the usual practice of the fireman to work on the ladder is at 10 inches in fire and rescue operations the number of rounds in each sections must be not less than 22 and totally be not less than 44 in the complete ladder the overlapping must be on less than 6 rounds of both the sections.

Special aluminium rectangular bar locks to be fitted to the integral parts of the ladder for safety and security to avoid accidents which forms a safety device, there shall be no difference in the level of the steps rungs of the upper and lower sections in overlapping portions when open or retracted.

Weight of the ladder must be not less than 52 Kgs. and must not exceed 54 Kgs. The ladder exceeding 54 Kgs. weight and below 52 Kgs. weight will not be accepted.

8. SIZES

Extended length	— 10.5 meters 33 feet (Approx.)
Closed length	— 6.23 meters 20 feet (Approx.)
Overall width	— 540 mm 21 inches (Approx.)
Weight Range	— 52.54 Kilograms (Exact.)
Steps Spacing	— 10 inches 250 mm (Exact.)
Number of steps in each section	— 22 Number (Exact.)
Number of steps in full ladder	— 44 Number (Exact.)
Number of overlapping rounds	— 6 Number (Exact.)
Overall height of ladder	— 172 mm (Maximum)
Hight distance between rungs	— 25.4 mm (Maximum)

9. WORKMANSHIP AND FINISH

It is essential that standard of workmanship is such that spares can be provided for all replaceable parts and that they will fit without any difficulty finish must be good and any surface of the ladder must not be buffed as it will reflect light and thus

cause difficulty, in fire and rescue operations, any strings or rounds having cracks or air bubbles are not to be used for construction of the ladder flat head rivet construction will not be accepted in any case and no cracked or bend section to be used for manufacturing of the ladder.

10. ACCEPTANCE TESTS

The acceptance tests to which the ladder will be subjected to are given below these tests will be carried out at the manufacturer's work, all the equipments required must be arranged by the supplier.

11. DEFLECTION TEST

The fully extended ladder shall be placed across trestles positioned at 40 cms from each end on a 30 cms. wide board placed across the trestles strings at the center of the span load of 38 Kilograms shall be applied and be allowed to remain therefore not less than a minute and then be removed. A load of 76 Kilograms is then to be gradually applied and the deflection due to this load shall not exceed 4 inches from the original position the load shall then be gradually increased to 114 Kilograms and the additional deflection shall not exceed 50% of that obtained, there shall be no sign of distress in any part of the ladder which when the load is removed and must return to a position not lower than that taken after removal of 38 Kilograms load i.e., show no sign of permanent set.

12. SIDE TEST

After completion of the deflection test, the ladder still resting on the two trestles it is to be turned through 90 degrees on to one side. In this position the deflection of the ladder under its own weight is to be measured from the center of the round at the point of maximum deflection to a line drawn between the center of the top and bottom rounds of the ladder. The deflection should not exceed 2 inches, the ladder is then to be turned over and tested on the other side.

13. ROUND TEST

The fully extended ladder placed across the trestles horizontally with support, two men weighing 150 Kilograms shall walk over the rounds, no sign of failure must be apparent on the rounds or its junction with the strings during this test.

14. ROUND TEST

The fully extended ladder shall be placed vertically and two men weighing 150 Kilograms shall jump on round from the round above no sign of failure must be apparent on the rounds or its junction with the strings during this test.

15. ROUND TEST

With the feet of the ladder at a distance of 6 Feet from the wall the ladder shall be fully extended and its head rested against the wall, a load of 320 Kilograms shall then be gradually applied to the middle of one round in each section by means of metal hook having a bearing surface of 5 cms wide and suitably lined to prevent brushing of the round, no sign of failure must be apparent either on the round or at its junction with the strings during this test.

16. SWING TEST

When pitched against a wall with the base of the ladder at 6 feet one man weighing 75 Kilograms to ascend the ladder and descend the same the ladder should not bend or weaken after the test there must be no sign of failure at the rounds or its junction with the strings.

17. EXTENSION TEST

The ladder must be capable of being fully extended by one man by a line on the main section to the required length. The ladder shall also be not over extended.

18. DRAWINGS

The general schematic drawing and catalogue must be enclosed with the tender by the supplier fabricator, which the offer will not be considered.

19. PERFORMANCE CERTIFICATE

The manufacturer submitting the offer will have to provide after sales certificate with performance certificates obtained without which the offer will not be considered.

20. GUARANTEE

The manufacturer will have to furnish a maintenance guarantee undertaking for service, repairs, replacement, maintenance etc., in and against any defects in the materials used for 12 calendar months commencing from the date of acceptance of the ladders and the manufacturer will replace or repair any part or parts free of cost.

21. MARKINGS

Each extension ladder must be clearly and permanently marked with the following information.

Manufacturer's name or trademark if any.

The size of the ladder.

The serial No. of the ladder and year of Manufacture.

22. TEST CERTIFICATE

Aluminium materials, Fitments Rope and S. S. materials test reports to be provided at the time of inspection of ladders.

23. GANTRY

These are the gallows for mounting the product on the fire tender which is to be provided with the ladder without which the offer will stand rejected.

24. DEVIATIONS

No deviations will be accepted as this is an important life saving Rescue Equipment.

CONDITIONS

1. Whether samples are essential — Pamphlets, Photograph etc., should be forwarded along with the tender
2. Period with in which goods should be delivered — With 2 weeks from the receipt of supply order
3. Rates should be quoted— For Thiruvananthapuram for the delivery including transporting charge of the items to Kerala
Fire & Rescue Services, Headquarters
4. Payment — 90% payment against delivery at
Thiruvananthapuram in good condition
5. Other special condition—A guarantee of 12 months from the delivery of item.

(4)

No. F1-11636/2012.

1st November 2012.

1. Sealed tenders are invited for the Purchase of 24 Nos. of Under Water Camera to Fire & Rescue Services Department. Details of items can be had along with the tender forms. The tenders are to reach the undersigned before 5 p.m. on 6-12-2012. Estimate Cost is ₹ 16,80,000.

2. The tenders should be superscribed as Tender No. 23/2012, and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-I. Late tenders will not be accepted. The tenders will be opened at 11 a.m. on 7-12-2012 in the presence of such tenderers or their authorized representatives who may be present at the time.

3. Intending tenderers may on application to the Commandant General obtain requisite tender form on which tenders should be submitted. Application for tender forms should be accompanied by the cash remittance/ money order of ` 2,600+4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstance. The tender forms are not transferable. The sale of tender forms will be closed at 3 p.m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Order, Postage Stamps etc., will be accepted towards the cost of tender forms, nor will the tender form be send per Value Payable Post. Duplicate tender forms if required will be supplied @ ` 1,300 + 4% VAT per copy. The tenderers are to read the general conditions given in the tender forms carefully before the forms are filled up.

Kerala Stamp Paper will be supplied to firms out side state if required by a separate cash remittance of ` 120 by Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവ്വീസസ് വകുപ്പിലേക്ക് അണ്ടർ വാട്ടർ ക്യാമറ—24 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർഘാസുകൾ 23/2012-ാം നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽ തുക—` 16,80,000.

2. അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 2,600 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 1,300 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിൽപ്പന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012, 5 മണിക്ക് മുൻപായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കു ശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012, 11 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽ വച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

3. ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാണ്ടന്റ് ജനറൽ, ഹോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവ്വീസസ്, കേരള, ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളിമുക്ക് പി. ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽ നിന്നും എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണി വരെ ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റേജ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

CONDITIONS

1. Whether samples are essential — Plankets, Photograph etc., should be forwarded along with tender.
2. Period within which goods should be delivered — Within two weeks from the receipt of supply order.
3. Rates should be quoted — For the delivery, including Thiruvananthapuram transporting charge of the items to Kerala Fire & Rescue Services Headquarters
4. Payment — 90% payment against delivery at Thiruvananthapuram in good condition.
5. Other special condition — A guarantee of 12 months from the delivery of item.

(5)

No. F1-11638/2012.

1st November 2012.

1. Sealed tenders are invited for the Purchase of 20 Nos. of Float Pump to Fire and Rescue Services Department. Details of items can be had along with the tender forms. The tenders are to reach the undersigned before 5 p.m. on 6-12-2012. Estimate Cost is ` 52 Lakhs.

2. The tenders should be superscribed as Tender No. 25/2012 and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-I. Late tenders will not be accepted. The tenders will be opened at 11 a.m. on 7-12-2012 in the presence of such tenderers or their authorized representatives who may be present at the time.

3. Intending tenderers may on application to the Commandant General obtain requisite tender form on which tenders should be submitted. Application for tender forms should be accompanied by the cash remittance/ Money Order of ` 7,800 + 4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstance. The tender forms are not transferable. The sale of tender forms will be closed at 3 p.m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Order, Postage Stamps etc. will be accepted towards the cost of tender forms, nor will the tender form be send per Value Payable Post. Duplicate tender forms if required will be supplied @ ` 3,900 + 4% VAT per copy. The tenderers are to read the general conditions given in the tender forms carefully before the forms are filled up.

4. Kerala Stamp Paper will be supplied to firms outside state if required by a separate cash remittance of ` 120 by Money Order.

1. കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ് വകുപ്പിലേക്ക് ഫ്ലോട്ടിംഗ് പമ്പ്—20 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർഘാസുകൾ 25/2012-ാം നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽ തുക—` 52 ലക്ഷം.

2. അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 7,800 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 3,900 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിൽപന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012, 5 മണിക്ക് മുൻപായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കു ശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012, 11 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽവെച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

3. ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാണ്ടന്റ് ജനറൽ, ഫോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, കേരള, ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളിമുട് പി. ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽ നിന്നും എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണി വരെ ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റേജ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

SPECIFICATIONS

De Watering Floto Pump

- * The Floating Pump is designed for the purpose of fire fighting and rescue operations.
- * The Floating Pump is light weight, self contained, driven by an air cooled, one cylinder, two-cycle petrol engine and capable of being carried by one (1) person.
- * The complete unit shall be designed for continuous operation at maximum rated output and should be capable of running under load immediately after starting from a cold condition.

Dimensions and Weight

The dimensions and weight of the Float Pump shall be as follows below:

- Overall Height — Not more than 420 mm (16")
- Overall Length — Not more than 711 mm (28")
- Overall Width—Not more than 508 mm (20")
- Dry Weight—Less than 20 Kg.

Engine

- * The engine shall be of solid state electronic ignition type with the minimum engine power of at least 5.96 kW (8.0 horse power) and a piston displacement of at least 134 cubic centimeters (8.20 cu.m.)
- * The engine must be standard production for minimum of 15 years.
- * The pump shall be equipped with a suitable cooling system to permit the pump to run continuously at full capacity without overheating during extended run times.
- * The float pump shall be self-priming type, durable, powerful and easy to maintain for quick response to emergency situations in inaccessible areas.
- * A well designed and permanently attached recoil starting device shall be provided so that the pump can be started easily and safely by one person.
- * The engine shall have a hard-chrome plated cylinder bore for long life.
- * A fully enclosed waterproof crankshaft mounted magneto shall produce sufficient current to the ignition system upon pulling the recoil starter.
- * The unit shall be capable of high speed running immediately after starting even in abnormally cold atmosphere conditions.
- * The engine cooling system shall be able to operate at high ambient temperatures running full throttle without overheating for extended periods of time.

Fuel and Exhaust System

- * The fuel tank shall be made of high density polyethylene and have a minimum capacity of 4.5 liters with a minimum run time of 1.25 hours at full power.
- * The fuel tank shall be positioned as far away from the engine exhaust as possible.
- * Throttle control must be controlled by automatic float system.
- * The carburetor system shall be diaphragm type with an integral fuel pump.

Pump

- * The pump shall be of the centrifugal type and direct coupled to the engine and driven via the crankshaft.
- * The shaft seal shall be face type mechanical seal. Requiring no adjustment.
- * Impeller wear rings shall be of the reusable type.
- * Built in stainless steel intake screen shall be provided.
- * Water-resistant air cleaner and muffler shall be provided.
- * The complete portable fire pump unit shall be capable of fulfilling the minimum duties given in the table below.

CONDITIONS

1. Whether samples—Plankets, Photograph etc. are essential Should be forwarded along with tender.
2. Period with in —Within two weeks from which goods the receipt of Supply should be Order.
3. Rates should be quoted for the delivery, including transporting charge of the items to Kerala Fire & Rescue Services Headquarters—For Thiruvananthapuram.
4. Payment— 90% payment against delivery at Thiruvananthapuram in good condition.
5. Other special—A guarantee of 12 condition months from the delivery of item.

Standard Pressure model Float Pump shall be capable of

- (1) 2 bar @ 530 lpm
- (2) 5 bar @ 300 lpm
- (3) 7 bar @ 115 lpm

The float pump shall be able to operate at maximum capacity in as little as 15 cm (6") of water level.

Control and Instruments

The Control and instruments, which shall be grouped conveniently and situate adjacent to the pump delivery connections and shall include the following.

- (a) Cold start choke control.
- (b) ON/OFF ignition switch.
- Decompression release switch.

Float Assembly

The float assembly must be made of high density polyethylene shell filled with polyurethane foam (closed cell) for floatation buoyancy.

(6)

No. F1-11639/2012.

1st November 2012.

Sealed tenders are invited for the Purchase of 16 Nos. of Portable Pump to Fire & Rescue Services Department. Details of items can be had along with the tender forms. The tenders are to reach the undersigned before 5 p. m. on 6-12-2012. Estimate Cost is ` 1,12,00,000.

The tenders should be superscribed as Tender No. 26/2012 and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-I. Late tenders will not be accepted. The tenders will be opened at 11 a.m. on 7-12-2012 in the presence of such tenderers or their authorized representatives who may be present at the time.

Intending tenderers may on application to the Commandant General obtain requisite tender form on which tenders should be submitted. Application for tender forms should be accompanied by the cash remittance/ Money Order of ` 16,800+4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstances. The tender forms are not transferable. The sale of tender forms will be closed at 3 p.m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Order, Postage Stamps etc. will be accepted towards the cost of tender forms, nor will the tender form be send per value payable post. Duplicate tender forms if required will be supplied @ ` 8,400+4% VAT per copy. The tenders are to read the general conditions given in the tender forms carefully before the forms are filled up.

Kerala Stamp Paper will be supplied to firms out side State if required by a separate cash remittance of ` 120 Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവ്വീസസ് വകുപ്പിലേക്ക് പോർട്ടബിൾ പമ്പ്—16 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർഘാസുകൾ 26/2012-ാം നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽ തുക— ` 1,12,00,000.

അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 16,800+4% മുഖ്യാധിഷ്ഠിത നികുതിയും ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 8,400+4% മുഖ്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിൽപ്പന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012, 5 മണിക്ക് മുൻപായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കുശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012, 11 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽവച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാണ്ടന്റ് ജനറൽ, ഫോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, കേരള, ഹൗസിംഗ് ബോർഡ് ജോഷൻ, പുളിമുക്ക് പി. ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽ നിന്നും എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണിവരെ ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

CONDITIONS

- Whether samples are essential — Plankets, Photograph etc. should be forwarded along with tender.
- Period within which goods should be — Within two weeks from the receipt of supply order.
- Rates should be quoted— For the delivery including Thiruvananthapuram. transporting charge of the items to Kerala Fire & Rescue Services Headquarters
- Payment — 90% Payment against delivery at Thiruvananthapuram in good condition.
- Other special condition — A guarantee of 12 months from the delivery of item.

SPECIFICATIONS

Portable Pump (Deep Lift Aquator with Independent P. P.)

Portable pump capable of pumping 1000 lpm at 7 kg/cm²-single stage single suction, turbine pump made of corrosion resistant, anodized light metal-self start, gasoline two stroke engine driven, engine and pump castings are made of anti-corrosive aluminium-alloy carrying comfort and weight not exceeding 150 kg, SS fuel tank. The discharge port can be rotated freely through 180 degree allowing the direction of the delivery hose to be easily changed without moving the pump unit.

Priming

The pump shall be provided with an Automatic/manual priming system capable of lifting water from a depth of 7 meters in less than 40 seconds. The pump shall have auto start facility, power back up, hood light, compound gauge, pressure gauge etc.

Accessories

Suction Hose 5m length	— 4 Nos.
Short Branch	— 4 Nos.
Strainer	— 2 Nos.
Suction line	— 2 Nos.
Delivery Hose	— 4 Nos.

(7)

No. F1-11640/2012.

1st November 2012.

Sealed tenders are invited for the purchase of 16 Nos. of Portable Generator with Search Light to Fire & Rescue Services Department. Details of items can be had along with the tender forms. The tenders are to reach the undersigned before 5 p.m. on 6-12-2012. Estimate Cost is ` 80 Lakhs.

The tenders should be superscribed as Tender No. 27/2012, and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-I. Late tenders will not be accepted. The tenders will be opened at 11 a.m. on 7-12-2012 the presence of such tenderers or their authorized representatives who may be present at the time.

Intending tenderers may on application to the Commandant General obtain requisite tender form on which tenders should be submitted. Application for tender forms should be accompanied by the cash remittance/money order of ` 12,000+4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstance. The tender forms are not transferable. The sale of tender forms will be closed at 3 p.m. on 5-12-2012. Neither Cheques, Bank Drafts, Postal Order, Postage Stamps etc. will be accepted towards the cost of tender forms, nor will the tender form be send per Value Payable Post. Duplicate tender forms if required will be supplied @ ` 6,000+4% VAT per copy. The tenders are to read the general conditions given in the tender forms carefully before the forms are filled up.

Kerala Stamp Paper will be supplied to firms out side State if required by a separate cash remittance of ` 120 Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ് വകുപ്പിലേക്ക് പോർട്ടബിൾ ജനറേറ്റർ വിൽ സേർച്ച് ലൈറ്റ്—16 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർഘാസുകൾ 27/2012-ാം നമ്പരായി ക്ഷണിച്ചു കൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസി നോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽ തുക— ` 80 ലക്ഷം.

അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില ` 12,000 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില ` 6,000 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ടെണ്ടർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെണ്ടർ ഫോറത്തിന്റെ വിൽപന 5-12-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 6-12-2012, 5 മണിക്ക് മുൻപായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കുശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 7-12-2012, 11 മണിക്ക് ദർഘാസു കാര്യമായോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽവെച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാണ്ടന്റ് ജനറൽ, ഹോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവ്വീസസ്, കേരള ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളിമൂട് പി. ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽ നിന്നും എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണി വരെ ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

CONDITIONS

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in good condition.
5. Other special condition — A guarantee of 12
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delivery of item.

Office of the Commandant General,
Home Guards, Civil Defence,
Fire and Rescue Services,
Housing Board Junction, Pulimood P. O., (Sd.)
Thiruvananthapuram-695 001. *Commandant General.*